Interr al Application No PCT/DK2004/000799

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K38/17 A61K A61P35/00 C07K14/47 C07K16/18 G01N33/574 G01N33/68 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal , BIOSIS, Sequence Search C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. Χ AKATSUKA YOSHIKI ET AL: "Identification 1-5, of a polymorphic gene, BCL2A1, encoding 7-11, two novel hematopoietic lineage-specific 13-24, minor histocompatibility antigens." 31-43, JOURNAL OF EXPERIMENTAL MEDICINE, 48-69, vol. 197, no. 11, 71-83 2 June 2003 (2003-06-02), pages 1489-1500, XP002321649 ISSN: 0022-1007 the whole document Y 44-47 -/-Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents : T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" carlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 1 1 NOV 2005 19 October 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL- 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31651 epo nl, Fax: (+31-70) 340-3016 Madruga,

Intern al Application No PCT/DK2004/000799

tegory °	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Regory Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No				
	US 5 856 171 A (KORSMEYER ET AL)	1-5,			
	5 January 1999 (1999-01-05)	7-11,			
	-	13-24,			
		31-43,			
		48-62,			
		67,68,			
		71-82			
	columns 32-34; sequences 21,24	/1-02			
(	WO 98/58541 A (DANA-FARBER CANCER	1-5,			
	INSTITUTE, INC; NOVARTIS AG)	7-11,			
	30 December 1998 (1998-12-30)	13-15,			
	(2000 42 00)	31-37,			
		76-78,			
		81,82			
	page 15, paragraph 2; claims; figures;	01,82			
	examples; table 1; sequences 3,4				
	_ · · · · · · · · · · · · · · · · · · ·				
	page 29, line 22 - page 31, line 16	Ì			
	page 33, line 5 - page 36, line 23				
	SCHMIDT S M ET AL: "Survivin is a shared	44-47			
	tumor-associated antigen expressed in a	""-"/			
	broad variety of malignancies and				
		Ì			
	recognized by specific cytotoxic T cells"				
	BLOOD, W.B.SAUNDERS COMPANY, ORLANDO, FL,	[			
	US,				
	vol. 102, no. 2,				
	15 July 2003 (2003-07-15), pages 571-576,	i			
	XP002283858	l			
	ISSN: 0006-4971				
	the whole document				
	FINNEGAN N M ET AL: "Induction of	1			
	apoptosis in prostate carcinoma cells by	1			
	BH3 peptides which inhibit Bak/Bcl-2	I			
	interactions"	I			
	BRITISH JOURNAL OF CANCER, LONDON, GB,				
	vol. 85, no. 5, May 2001 (2001-05), pages	1			
	115-121, XP002978948				
	ISSN: 0007-0920	1			
	the whole document				
4	SHANGARY S ET AL: "Recent advances in the	]			
	development of anticancer agents targeting	ł			
	cell death inhibitors in the BcI-2 protein				
	family."	ł			
	LEUKEMIA (BASINGSTOKE),				
	vol. 17, no. 8, August 2003 (2003-08),				
	pages 1470-1481, XP002321650				
	ISSN: 0887-6924	1			
	cited in the application	I			
	the whole document				
	_/				

Intern al Application No PCT/DK2004/000799

		PCT/DK2004/000799
C.(Continus	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	RENKVIST N ET AL: "A listing of human tumor antigens recognized by T cells" CANCER IMMUNOLOGY AND IMMUNOTHERAPY, BERLIN, DE, vol. 50, no. 1, March 2001 (2001-03), pages 3-15, XP002274524 ISSN: 0340-7004 the whole document	
A	HIROHASHI Y ET AL: "An HLA-A24-restricted cytotoxic T lymphocyte epitope of a tumor-associ ated protein , survivin" CLINICAL CANCER RESEARCH, THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, US, vol . 8, no . 6, June 2002 (2002-06) , pages 1731-1739, XP002283856 ISSN: 1078-0432 the whole document	
Т	ANDERSEN MADS HALD ET AL: "Immunogenicity of BcI - 2 in pati ents with cancer." BLOOD. 15 JAN 2005, vol . 105, no. 2, 15 January 2005 (2005-01-15) , pages 728-734, XP002321651 ISSN: 0006-4971 the whole document	1-5, 7, 10, 11, 13, 16-23, 31-69, 71-83
Р, Х	NISHIDA TETSUYA ET AL: "Cl inical rel evance of a newly identified HLA-A24-restricted minor hi stocompatibi lity antigen epitope derived from BCL2A1, ACC-I, in patients receiving HLA genotypical ly matched unrel ated bone marrow transpl ant."  BRITISH JOURNAL OF HAEMATOLOGY, vol. 124, no. 5, March 2004 (2004-03), pages 629-635, XP002321652  ISSN: 0007-1048 the whole document	1-5 , 7 , 10 , 11 , 13 , 16-21 , 31-37 , 43 , 61-63 , 66 , 76-78 , 81-83
P,X	wo 2004/067023 A (SURVAC A/S; STRATEN, EIVIND, PER, THOR; ANDERSEN, MADS, HALD) 12 August 2004 (2004-08-12)  page 13, line 25 - page 14, line 16; claims  -/	1-5 , 7 , 10 , 11 , 13 , 16-23 , 31-69 , 71-83

Intern at Application No PCT/DK2004/000799

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	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SAETERDAL I ET AL:  "FRAMESHIFT-MUTATION-DERIVED PEPTIDES AS TUMOR-SPECIFIC ANTIGENS IN INHERITED AND SPONTANEOUS COLORECTAL CANCER"  PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 23, no. 98, 6 November 2001 (2001-11-06), pages 13255-13260, XP001084195  ISSN: 0027-8424  page 13256, left-hand column, paragraph 2  page 13260, right-hand column, paragraph 2	1,10,58, 61-63, 66,71
x	US 5 470 955 A (CRAIG ET AL) 28 November 1995 (1995-11-28)  the whole document	1-5, 9-11,15, 16,24, 37,41, 48-62, 66-68, 70-81
X	WO 01/36594 A (DARTMOUTH COLLEGE; CRAIG, RUTH, W; BINGLE, COLIN, D; WHYTE, MOIRA) 25 May 2001 (2001-05-25)	1-5, 9-11,15, 16,24, 37,41, 48-62, 66-68, 70-81
A	REED J C: "Bci-2 family proteins" ONCOGENE, BASINGSTOKE, HANTS, GB, vol. 17, no. 25, 24 December 1998 (1998-12-24), pages 3225-3236, XP002290420 ISSN: 0950-9232 cited in the application the whole document	

International application No. PCT/DK2004/000799

Box n Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. 3 claims Nos.: 37 (in part), 67 (in part), 70 because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
c <sub>h in s Nos</sub> :  37 (in part), 67 (in part), 70  because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box π Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable elaims
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. X. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-83, all in part and insofar as applicable
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  X The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

International Application No. PCT/DK2004

#### FURTHER INFORMATION CONTINUED FROM POT/ISA/ 210

Continuation of Box II. 1

Although claims 66, 81, 82 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 71-75 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

### FURTHER INFORMATION CONTINUED FROM POT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1, claims 1-5, 7, 10, 11, 13, 16-23, 31-83 all in part
 and insofar as applicable

An MHC Class I-restricted epitope peptide derived from a protein of the Bcl-2 family, said peptide being selected from the group consisting of SEQ ID NOs: 1-11 and 40-64, respectively; A composition or pharmaceutical composition comprising such peptide; A complex of such peptide and a Class I HLA molecule; A method for detecting the presence of said protein of the Bcl-2 family using such complex; Antibodies binding to such peptide; uses of such peptide or composition for the preparation of a medicament for the treatment of cancer. All relating to SEQ ID NO: 1 (ALVGACITL), a peptide fragment of Bcl-2.

Inventions 2-36, claims 1-83 all in part and insofar as applicable

As for invention 1 but relating to SEQ ID NOs: 2-11 and 40-64, respectively.

Information on patent family members

Interr... Application No
PCT/DK2004/000799

	Publication date	Patent family member(s)		Publication date	
A	05-01-1999	AU 688368 B2		B2 <sup>-</sup>	12-03-1998
		AU	7604994	Α	21-03-1995
		BR	9407583	Α	07-01-1997
		CA	2170143	Al	02-03-1995
		EΡ	0722275	Al	24-07-1996
		JР	9502088	${f T}$	04-03-1997
		JР	2000336100	Α	05-12-2000
		NZ	271929	A	25-03-1998
		WO	9505750	A1	02-03-1995
A	30-12-1998	NONE			
Α	12-08-2004	ΑU	2004208469	Al	12-08-2004
Α	28-11-1995	NONE			
A	25-05-2001	AU	3471200	 А	30-05-2001
	A A A	A 30-12-1998 A 12-08-2004 A 28-11-1995	A 05-01-1999 AU AU BR CA EP JP NZ WO  A 30-12-1998 NONE A 12-08-2004 AU  A 28-11-1995 NONE	A 05-01-1999 AU 688368 AU 7604994 BR 9407583 CA 2170143 EP 0722275 JP 9502088 JP 2000336100 NZ 271929 WO 9505750  A 30-12-1998 NONE  A 12-08-2004 AU 2004208469  A 28-11-1995 NONE	A 05-01-1999 AU 688368 B2 AU 7604994 A BR 9407583 A CA 2170143 A1 EP 0722275 A1 JP 9502088 T JP 2000336100 A NZ 271929 A WO 9505750 A1  A 30-12-1998 NONE  A 12-08-2004 AU 2004208469 A1  A 28-11-1995 NONE